

FIRE ALARM.

993,870.

A technical drawing of a door and window assembly. The door is centrally located, featuring a six-pane design with two vertical panes in the upper half and four horizontal panes in the lower half. It is equipped with a handle on the right side and hinges on the left. The door is set within a frame that includes a transom window above it. The entire assembly is flanked by vertical elements, possibly walls or additional window frames, and sits on a base with a hatched pattern.

Fig. 1.

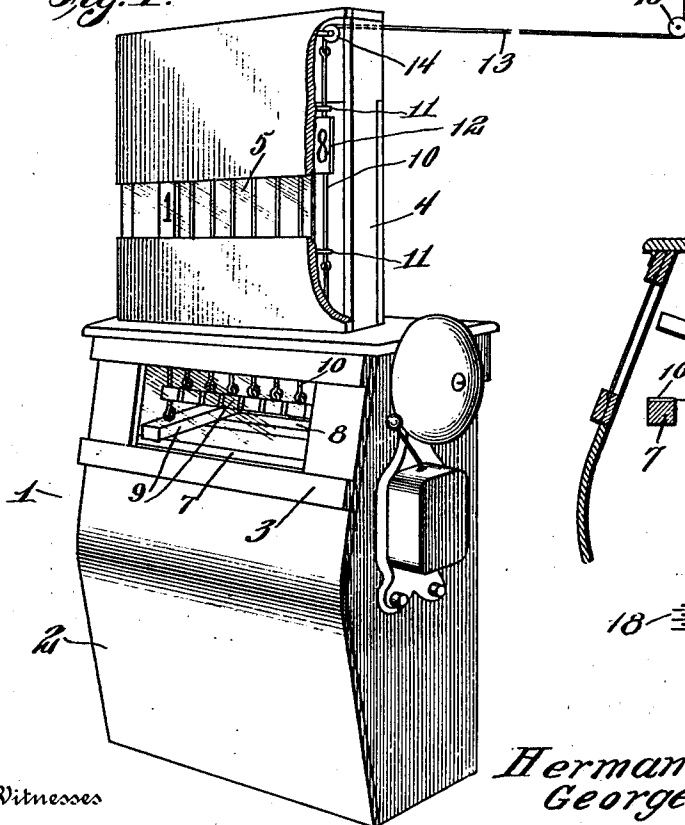
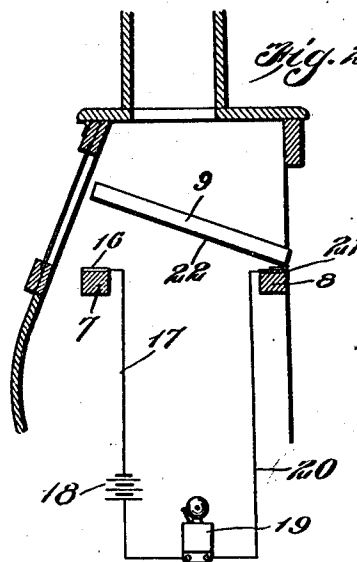


Fig. 2.



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FIRE-ALARM.

993,870.

Specification of Letters Patent.

Patented May 30, 1911.

Application filed December 17, 1910. Serial No. 597,856.

To all whom it may concern:

Be it known that we, HERMAN G. PERKINS and GEORGE H. ELLIOTT, citizens of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented new and useful Improvements in Fire-Alarms, of which the following is a specification.

This invention relates to automatic fire alarms which has for one of its objects to provide an alarm of this character which is especially adapted for use in hotels and other buildings having a large number of rooms.

Another object of the invention is to provide means whereby the location of a fire in the building is indicated simultaneously with the sounding of an alarm.

With these and other objects in view the invention consists in the structure, combination and arrangement of parts, hereinafter described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of the device. Fig. 2 is a vertical section of a portion of the device.

Referring to the drawings the numeral 1 designates the alarm comprising a lower compartment 2 having a glazed door 3 whereby ready access may be had to the interior for any necessary adjustments or repair, and an upper indicator compartment 4 provided with a glazed aperture 5 through which the indicator may be readily seen when an alarm is sounded.

Extending from side to side of the lower compartment 2 are cross-bars 7 and 8 and pivotally mounted upon the rear bar 8 are a plurality of levers 9 having indicator rods 10 swiveled to their forward end, the said rods extending up into the indicator casing passing through suitable guides 11 and having an indicator board 12 attached in any suitable manner.

To the upper end of the rods 10 are secured ropes or flexible connections 13 passing over pulleys 14 and thence over suitably located pulleys 15 to the rooms where the rope or flexible connection is encircled about the upper edge of the base-board and about the door casing.

Upon the upper surface of the cross-bar 7 is a contact plate 16 having electrical con-

nection through a wire 17 with one of the poles of a battery 18, the other pole of said battery being connected with one side of an alarm bell 19 the other side of said alarm bell being connected by a wire 20 to a plate 21 secured to the upper face of the cross-bar 8. Each of the levers 9 have on their lower face a metal contact plate 22 which through the medium of the hinges of said levers are in electrical contact with the plate 21 secured to the cross bar 8.

With all the parts as shown and described it will be obvious that a burning apart of either or all of the cords will cause either or all of the levers to drop drawing down an indicator board or boards to view behind the glazed aperture 5 of the indicator casing 4 showing the location of the fire and at the same time bridging the plates of the cross-bar 7 and 8 closing the electrical circuit of the alarm-bell causing the alarm to sound.

It will of course be understood that we do not limit ourselves to the exact construction and arrangement of parts as shown and described, but reserve the right to make such changes as would come within the spirit of the invention.

We claim:—

In a fire alarm, a casing, a pair of spaced cross bars arranged horizontally in the casing and provided with contact plates on their upper surfaces, a series of indicating members hinged to one of said cross bars and adapted to engage the other cross bar, said indicating members being provided with contact plates on their lower sides, the casing being formed with a side opening, a series of flexible members connected with the indicating members and adapted to have distant operative connection, a series of numbered boards carried by said flexible members and an alarm circuit connected with the contact plates of the cross bars.

In testimony whereof we affix our signatures in presence of two witnesses.

HERMAN G. PERKINS.
GEORGE H. ELLIOTT.

Witnesses:

J. Z. HOWE,
S. L. LASHBROOK.